



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: **0000050312** | Submit Date: **04/05/2018** | Call Sign: **WXII-TV** | Facility ID: **53921** | FRN: **0002538445** | State: **North Carolina** | City: **WINSTON-SALEM**

Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **04/17/2018** | Expiration Date: **10/15/2018** | Filing Status: **Active**

General Information

Section	Question	Response
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Fees, Waivers, and Exemptions

Section	Question	Response
Fees	Is the applicant exempt from FCC application Fees?	No
	Indicate reason for fee exemption:	
Waivers	Does this filing request a waiver of the Commission's rule(s)?	No
	Total number of rule sections involved in this waiver request:	

Application Type	Fee Code	Fee Amount
Engineering STA	MGT	\$190.00
Total		\$190.00

Applicant
Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
HEARST PROPERTIES INC. Doing Business As: Hearst Properties Inc.	PO Box 1800 Raleigh, NC 27602 United States	+1 (919) 839-0300	mprak@brookspierce.com	Corporation

Authorization Holder Name

Check box if the Authorization Holder name is being updated because of the sale (or transfer of control) of the Authorization(s) to another party and for which proper Commission approval has not been received or proper notification provided.

Contact
Representatives
(3)

Contact Name	Address	Phone	Email	Contact Type
Joseph M. Davis , P.E. . <i>Consulting Engineer</i> Chesapeake RF Consultants, LLC	207 Old Dominion Road Yorktown, VA 23692 United States	+1 (703) 650- 9600	Joseph.Davis@RF- consultants.com	Technical Representative
Stephen Hartzell Brooks, Pierce et al.	150 Fayetteville Street Suite 1700 Raleigh, NC 27601 United States	+1 (919) 839- 0300	shartzell@brookspierce.com	Legal Representative
Mark J. Prak Brooks, Pierce et al.	150 Fayetteville Street Suite 1700 Raleigh, NC 27601 United States	+1 (919) 839- 0300	mprak@brookspierce.com	Legal Representative

Channel and
Facility
Information

Section	Question	Response
Proposed Community of License	Facility ID	53921
	State	North Carolina
	City	WINSTON-SALEM
	DTV Channel	31
	Designated Market Area	Greensboro-H.Point-W. Salem
Facility Type	Facility Type	Commercial
	Station Type	Main
Zone	Zone	2

Antenna Location
Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1008241
Coordinates (NAD83)	Latitude	36° 22' 31.0" N+
	Longitude	080° 22' 25.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	208.1 meters
	Support Structure Height	176.6 meters
	Ground Elevation (AMSL)	731.5 meters
Antenna Data	Height of Radiation Center Above Ground Level	129.5 meters
	Height of Radiation Center Above Average Terrain	541.4 meters
	Height of Radiation Center Above Mean Sea Level	861.0 meters
	Effective Radiated Power	980 kW

Antenna
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1002940
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	TFU-24WB C160
	Rotation	110.0 degrees
	Electrical Beam Tilt	0.50
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
DTV and DTS: Elevation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	No
	Uploaded file for elevation antenna (or radiation) pattern data	

Directional Antenna Relative Field Values (Pre-rotated Pattern)

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	0.771	90	0.881	180	0.621	270	0.879
10	0.786	100	0.830	190	0.574	280	0.926
20	0.829	110	0.762	200	0.455	290	0.968
30	0.891	120	0.658	210	0.346	300	0.994
40	0.952	130	0.515	220	0.373	310	0.988
50	0.992	140	0.375	230	0.514	320	0.949
60	0.998	150	0.349	240	0.658	330	0.889
70	0.972	160	0.458	250	0.763	340	0.828
80	0.929	170	0.575	260	0.830	350	0.785

Additional Azimuths

Degree	V _A
57	1.000
303	0.996
213	0.336
147	0.339

Certification

Section	Question	Response
General Certification Statements	The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by authorization or otherwise, and requests an Authorization in accordance with this application (See Section 304 of the Communications Act of 1934, as amended.).	
	The Applicant certifies that neither the Applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to §5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. §862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under §1.2002(c) of the rules, 47 CFR . See §1.2002(b) of the rules, 47 CFR §1.2002(b), for the definition of "party to the application" as used in this certification §1.2002 (c). The Applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.	
Authorized Party to Sign	FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID Upon grant of this application, the Authorization Holder may be subject to certain construction or coverage requirements. Failure to meet the construction or coverage requirements will result in automatic cancellation of the Authorization. Consult appropriate FCC regulations to determine the construction or coverage requirements that apply to the type of Authorization requested in this application. WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. Code, Title 18, §1001) AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, §312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, §503).	
	I certify that this application includes all required and relevant attachments.	Yes
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	Jordan M. Wertlieb <i>President</i> 04/05/2018

Attachments

File Name	Uploaded By	Attachment Type	Description
WXII-TV - Request for STA Exhibit.pdf	Applicant	All Purpose	Request for STA
WXII-TV STA request for interim antenna ENG 03-30-2018.pdf	Applicant	General Information	WXII-TV STA engineering exhibits